

Amendments to the Claims

1. (Currently Amended) A cathode ray tube comprising:
a panel having a phosphor screen formed on the inner surface thereof;
a funnel joined to the panel at a seal line plane and having a body portion, a yoke portion,
a yoke line plane, and a neck portion; and
an electron gun mounted to the neck portion of said funnel,
wherein a thickness projection in the body portion of the funnel is provided ~~between a~~
~~yoke and on the yoke line plane and said panel and said funnel satisfy:~~

$$\underline{USD/PT \geq 2.5}$$

wherein USD is a diagonal length of an effective screen of the panel, and PT is a distance
between a central point of an inner surface of said panel and the yoke line plane.

2. (Canceled)

3. (Previously Presented) The cathode ray tube of claim 1, wherein a maximum thickness Tmax and a minimum thickness Tmin of a cross section of said thickness projection satisfies:

$$1.5 \leq T_{\max}/T_{\min} \leq 4.0.$$

4. (Previously Presented) The cathode ray tube of claim 1, wherein a thickness of said thickness projection is greater than a thickness of the adjacent body portion of the funnel.

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5. (Previously Presented) The cathode ray tube of claim 4, wherein said thickness projection at an outer surface of said funnel is provided with stairs at the ends thereof.

6. (Previously Presented) The cathode ray tube of claim 4, wherein said thickness projection at an outer surface of said funnel is provided with ends having curvature.

7. (Previously Presented) The cathode ray tube of claim 1, wherein a thickness of said funnel except the thickness projection becomes gradually greater from the neck portion to the seal line plane.

8. (Previously Presented) A cathode ray tube comprising:
a panel having a phosphor screen formed on the inner surface thereof;
a funnel joined to the panel at a seal line plane and having a body portion, a yoke portion, a yoke line plane, and a neck portion; and
an electron gun mounted to the neck portion of said funnel,
wherein a thickness projection in the body portion of the funnel is provided between the seal line plane and the neck portion of the funnel extending on both sides of the yoke line plane, and wherein said panel and said funnel satisfy:

$$USD/PT \geq 2.5$$

wherein USD is a diagonal length of an effective screen of the panel, and PT is a distance between a central point of an inner surface of said panel and the yoke line plane.

9. (Original) The cathode ray tube of claim 8, wherein a deflection angle of the electron beams is no less than or equal to 100° .

10. (Previously Presented) The cathode ray tube of claim 8, wherein a cross section of the neck portion has a non-circular shape.

11. (Previously Presented) The cathode ray tube of claim 9, wherein a cross section of the neck portion has a non-circular shape.

12. (Original) The cathode ray tube of claim 1, wherein a deflecting angle of the electron beams is no less than or equal to 100° .

13. (Previously Presented) The cathode ray tube of claim 12, wherein a cross section of the neck portion has a non-circular shape.

14. (Previously Presented) The cathode ray tube of claim 1, wherein a cross section of the neck portion has a non-circular shape.

15. (Previously Presented) A cathode ray tube comprising:

a panel having a phosphor screen formed on the inner surface thereof;

a funnel joined to the panel at a seal line plane and having a body portion, a yoke portion, a yoke line plane, and a neck portion; and

an electron gun mounted to the neck portion of said funnel,

wherein a thickness projection in the body portion of the funnel is provided between the seal line plane and the neck portion of the funnel extending on both sides of the yoke line plane,

and

wherein said funnel satisfies:

$$T_t/T_s \geq 0.9, T_t/T_n \geq 1.0, T_t \geq 0.7\text{mm}$$

wherein A is a plane which is 30 mm apart from the yoke line plane to neck portion, C is a plane which is 40 mm apart from the yoke line plane to the screen, and

T_n is a thickness of said funnel at a position between A and the yoke line plane, T_t is a thickness of said funnel at the yoke line plane, and T_s is a thickness of said funnel at a position between the yoke line plane and C.